INTERNATIONAL SEARCH REPORT

International application No.

A	. CLA	SSIFICATION OF SUBJECT MATTER		PCT/US04/19590)		
	IPC(7)	: B01J 19/08					
١.	US CL : 42/186.04,186.21,224; 204/164						
1	According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED						
—	- Tabbe objection						
M	Minimum documentation searched (classification system followed by classification symbols) U.S.: 42/186.04 186 21 224: 204/164						
- 1	U.S.: 42/186.04,186.21,224; 204/164						
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, D	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
-	that such documents are included in the fields searched						
E	Electronic data hase consulted during the interactional and the						
w	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
- 1							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
	ategory *	Citation of document with the citation of the citation o					
<u> </u>	X	Citation of document, with indication, where	appropriate, of the releva	ant passages	Relevant to claim No.		
		US 4,801,435 (TYLKO) 31 January 1989, see abst Description of the Prior Art.	ract; Figs. 1, 2 and 4; an	d section of	1,6,12,18,19,24,28 and		
	Y				29		
- 1		col. 5, lines 11-13 and lines 17-25; and col. 6, line	es 54-57.		2-5,7-11,20,22,23,25-		
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	Further of	documents are listed in the continuation of Box C.		* * · · · · · · · · · · · · · · · · · ·			
-		reial categories of cited documents:	See patent fai				
-A-			"T" later document date and not in a	published after the inter	national filing date or priority tion but cited to understand the		
"	of particula	lefining the general state of the art which is not considered to be relevance	principle or the	ory underlying the inver	ition out cited to diderstand the		
-E-	earlier appl	ication or patent published on or after the international filing date	"X" document of par	nicular relevance; the c	laimed invention cannot be		
			considered nove	l or cannot be considere	ed to involve an inventive step		
-	establish the	which may throw doubts on priority claim(s) or which is cited to e publication date of another citation or other special reason (as					
	specified)	or opposite reacting that	considered to in	volve an inventive sten-	aimed invention cannot be when the document is		
"0"	document re	eferring to an oral disclosure, use, exhibition or other means	combined with c	one or more other such one or more other such one of the other of the other or more other or more other or more other ot	focuments such combination		
"P"		ublished prior to the international filing date but later than the					
	priority date	Calmed	"&" document member of the same patent family				
Date	e of the acti	ual completion of the international search	Date of mailing of the interpational search report				
20 I	February 20	05 (20.02.2005)	U8 MAR 2005				
Name and mailing address of the ISA/US			Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			= 100				
P.O. Box 1450			Kishor Mayekar . Ullustic				
Foor	Alexai	ndria, Virginia 22313-1450	Telephone No. (571) 2	72 300	V		
	Facsimile No. (703) 305-3230 Form PCT/ISA/210 (second sheet) (January 2004)						
ronn	FC1/15A/2	(second sheet) (January 2004)			·		

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PCT/US04/19590

	Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:							
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:							
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to an extent that no meaningful international search can be carried out, specifically:	such						
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6	5.4(a).						
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)							
This International Searching Authority found multiple inventions in this international application, as follows:							
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search rep covers only those claims for which fees were paid, specifically claims Nos.: 	ort !						
4. No required additional search fees were timely paid by the applicant. Consequently, this international search reporestricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protect.	rt is						
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.							
Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)							